

FIG. 1

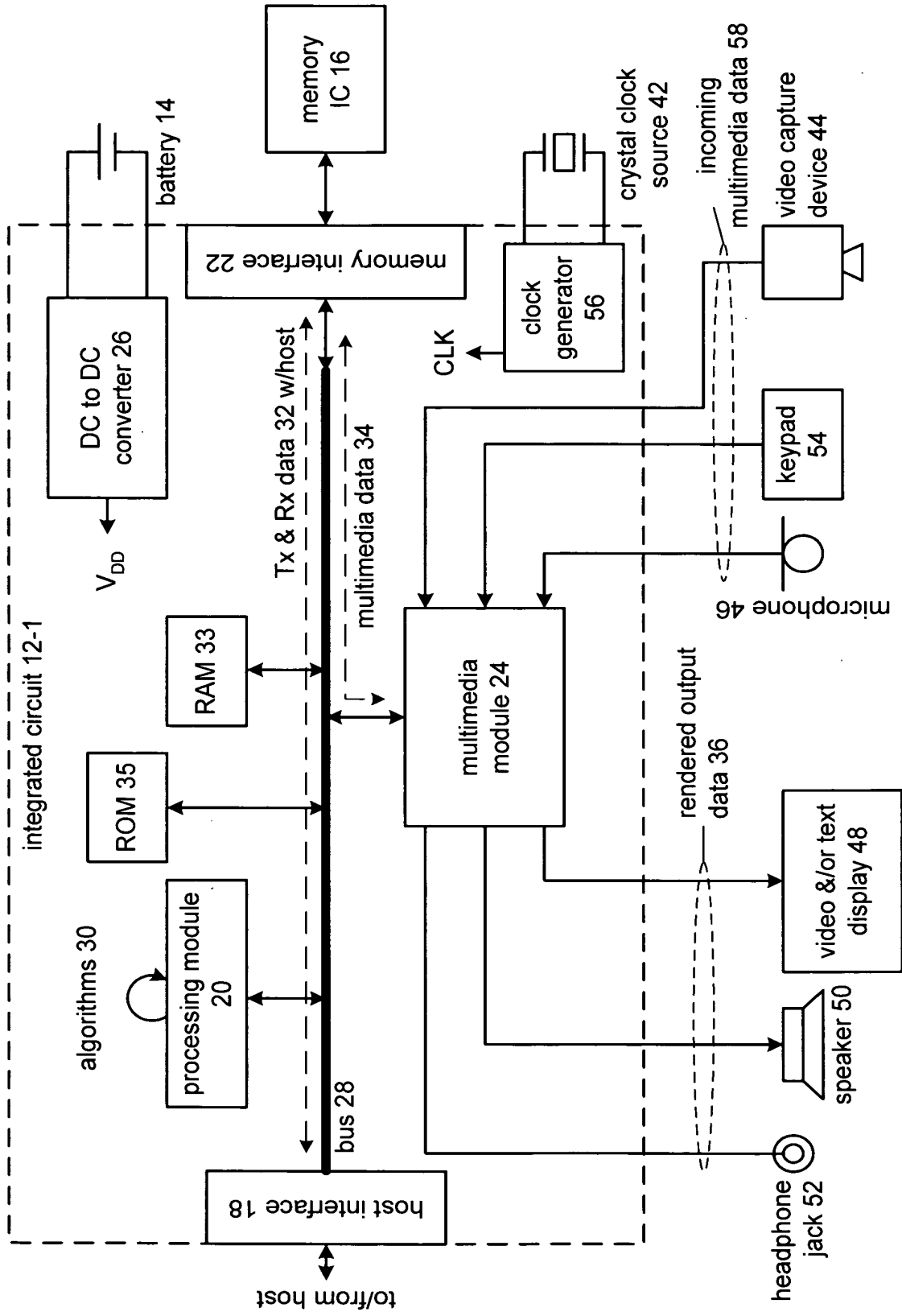


FIG. 2
multi-function handheld device 40

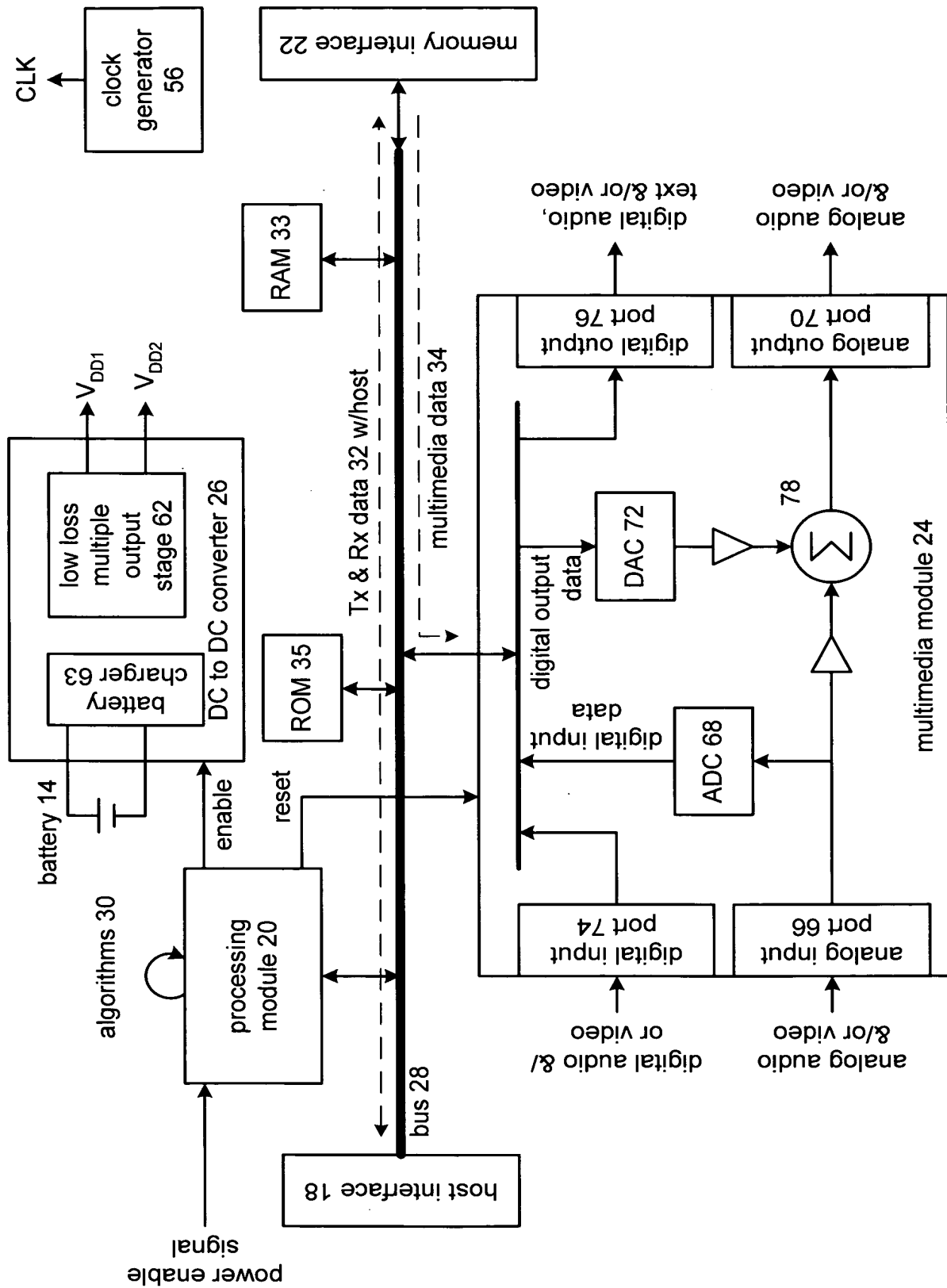


FIG. 3
integrated circuit 12-2

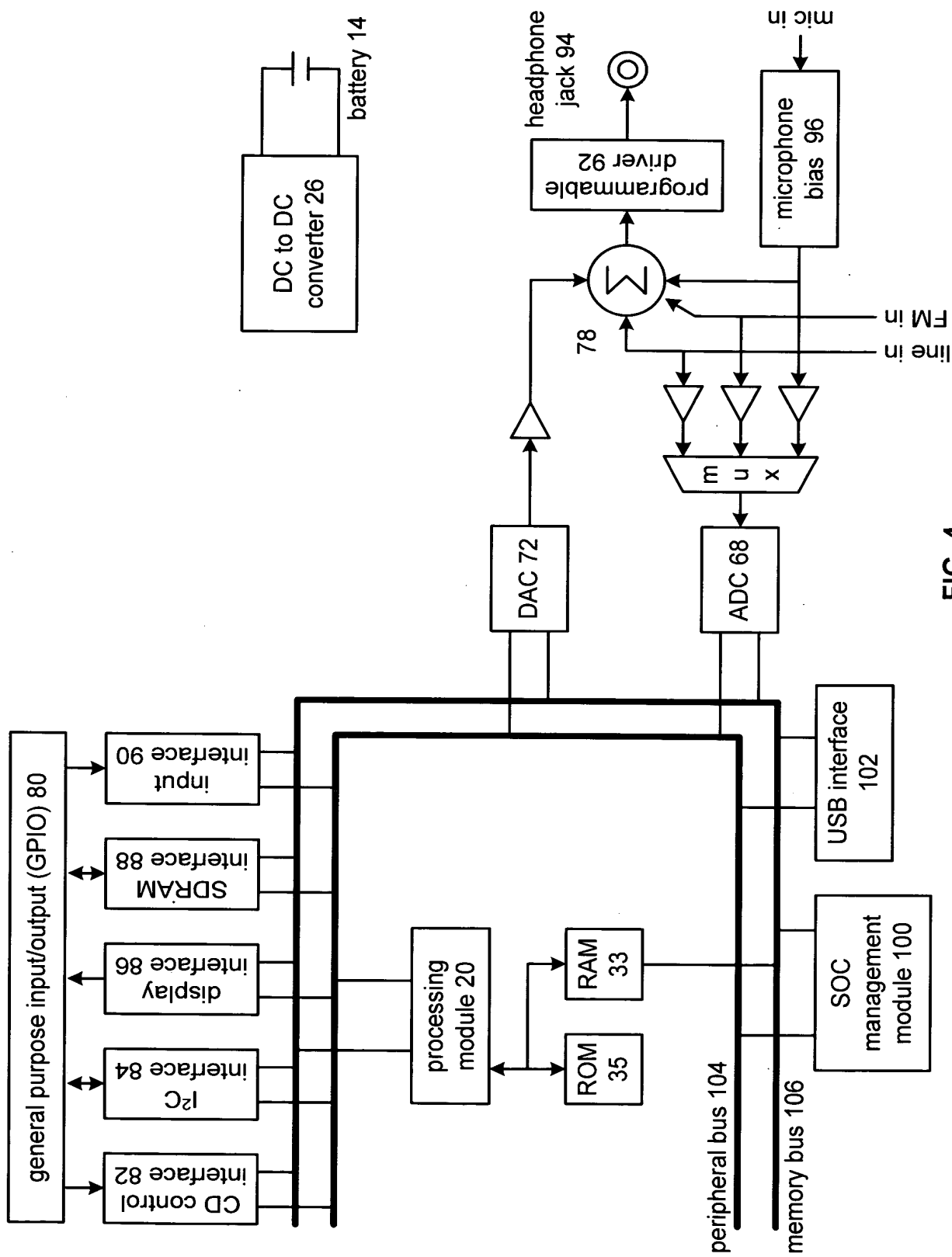


FIG. 4
integrated circuit 12-3

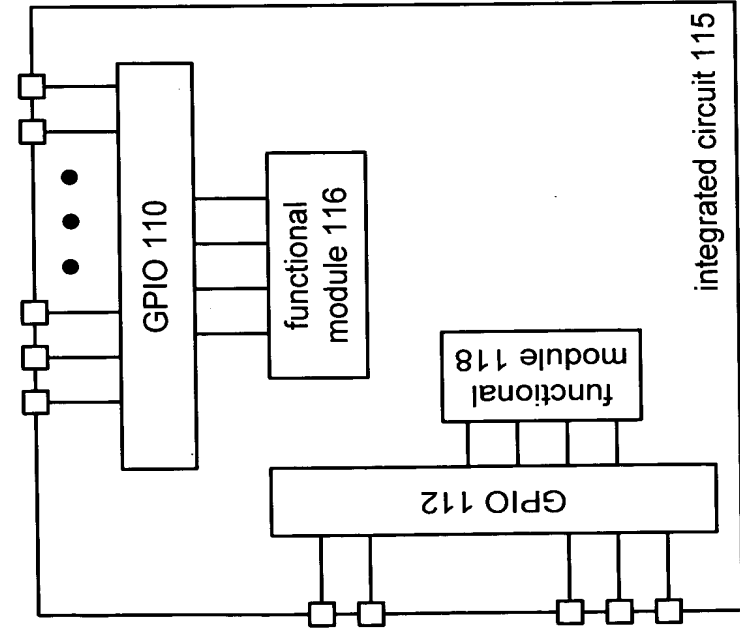


FIG. 5

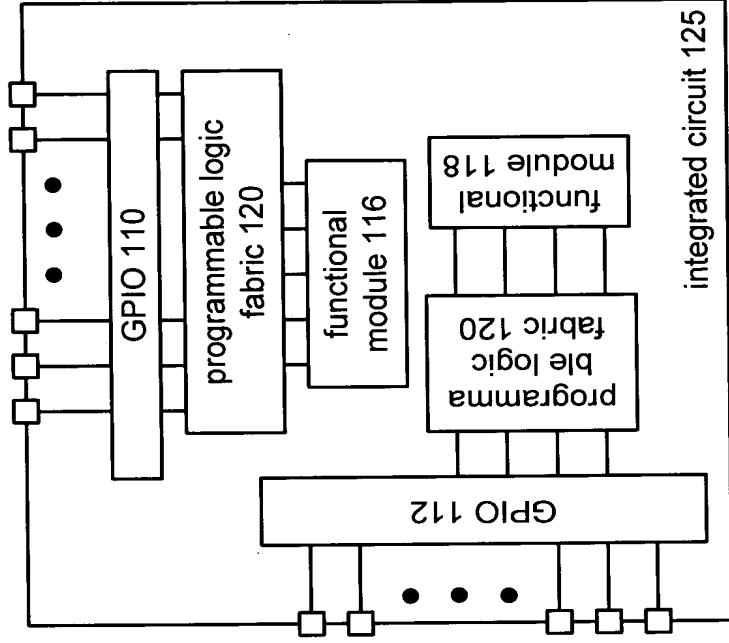
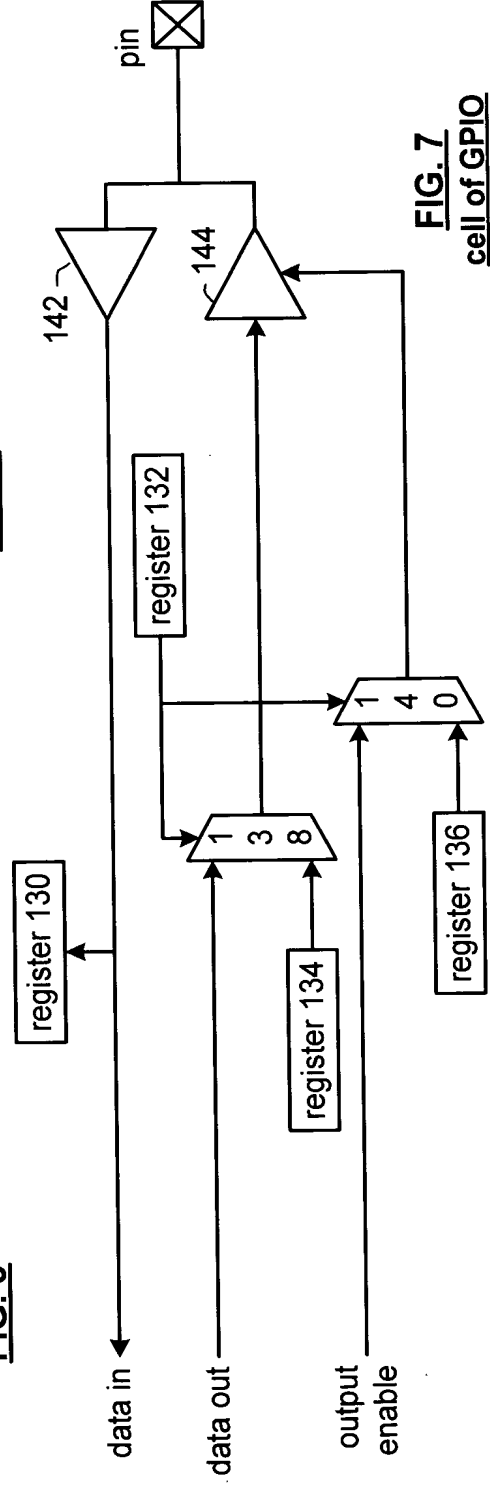


FIG. 6



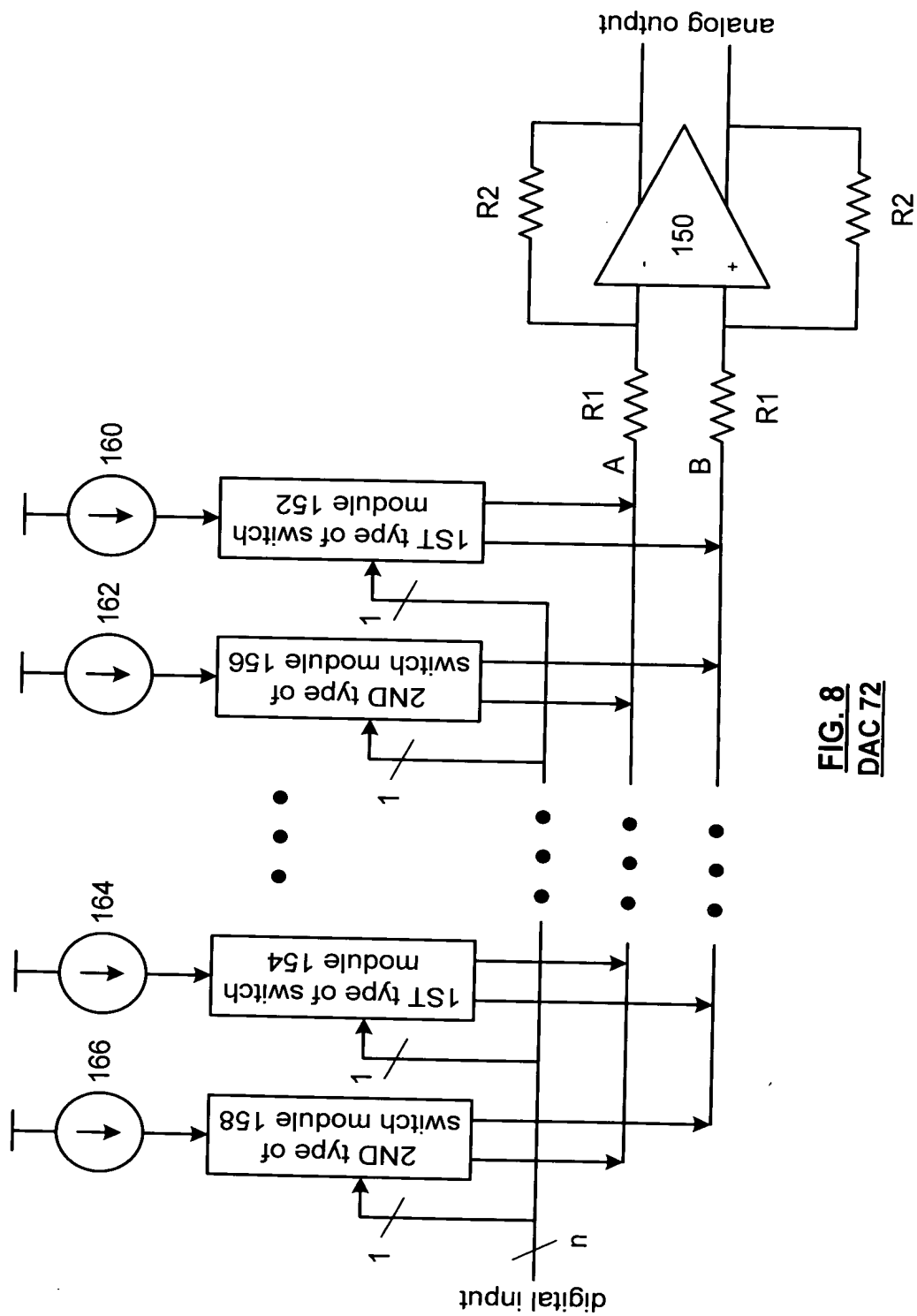


FIG. 8
DAC 72

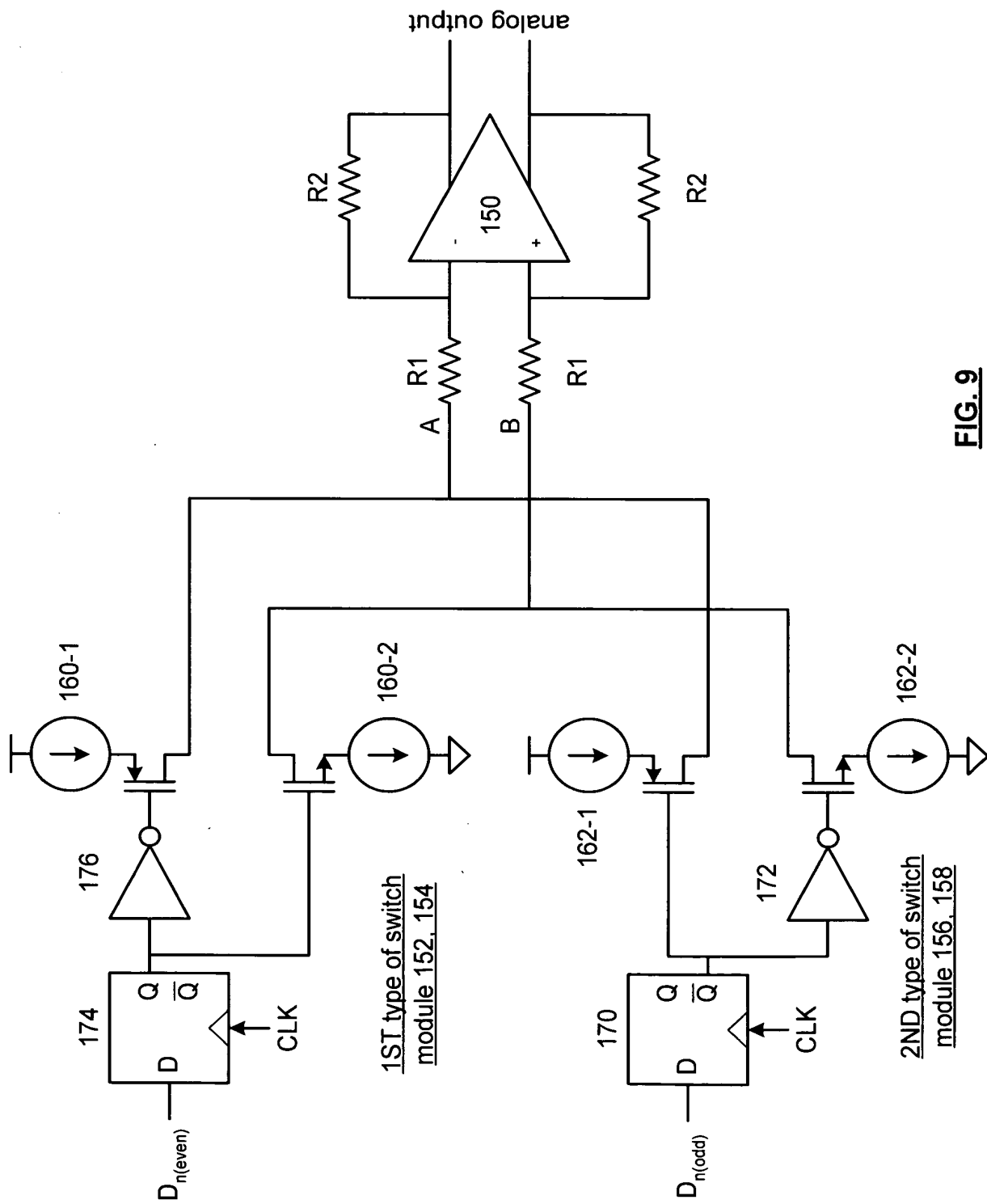


FIG. 9

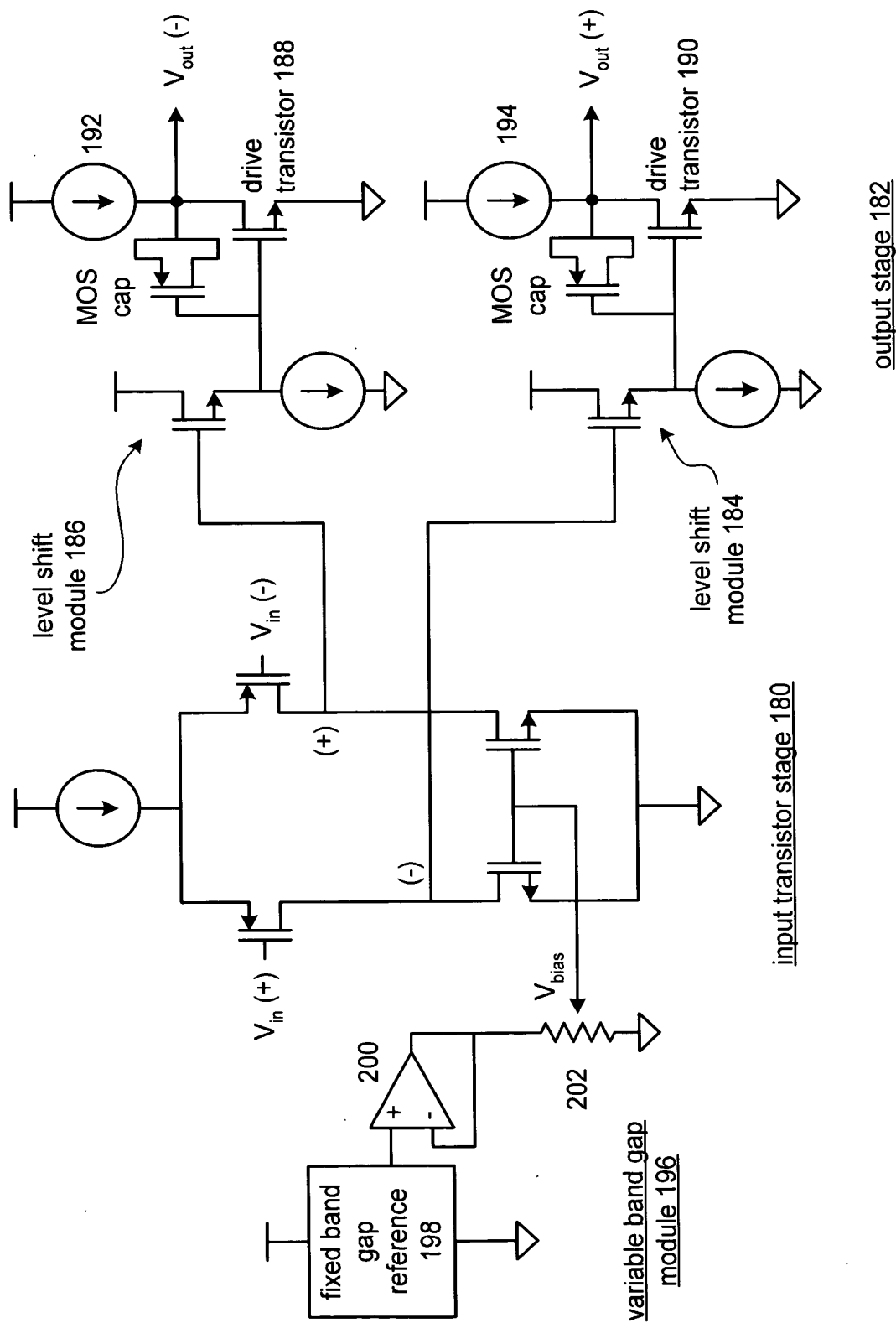


FIG. 10
op amp 150

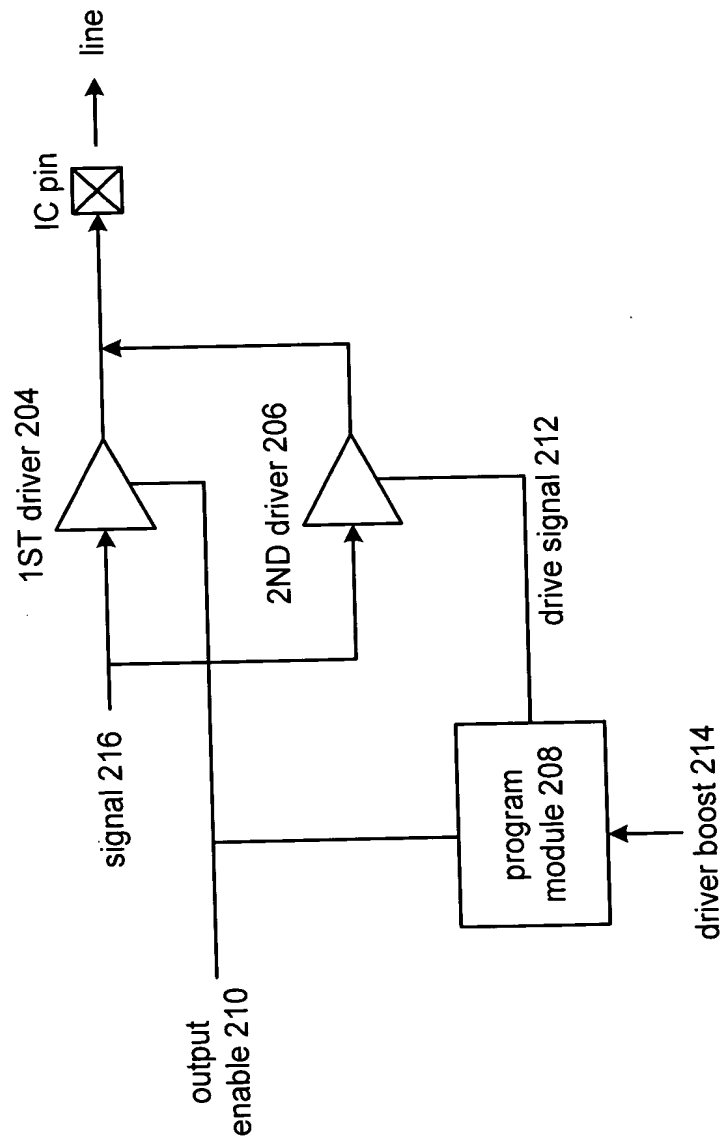


FIG. 11
programmable driver 92

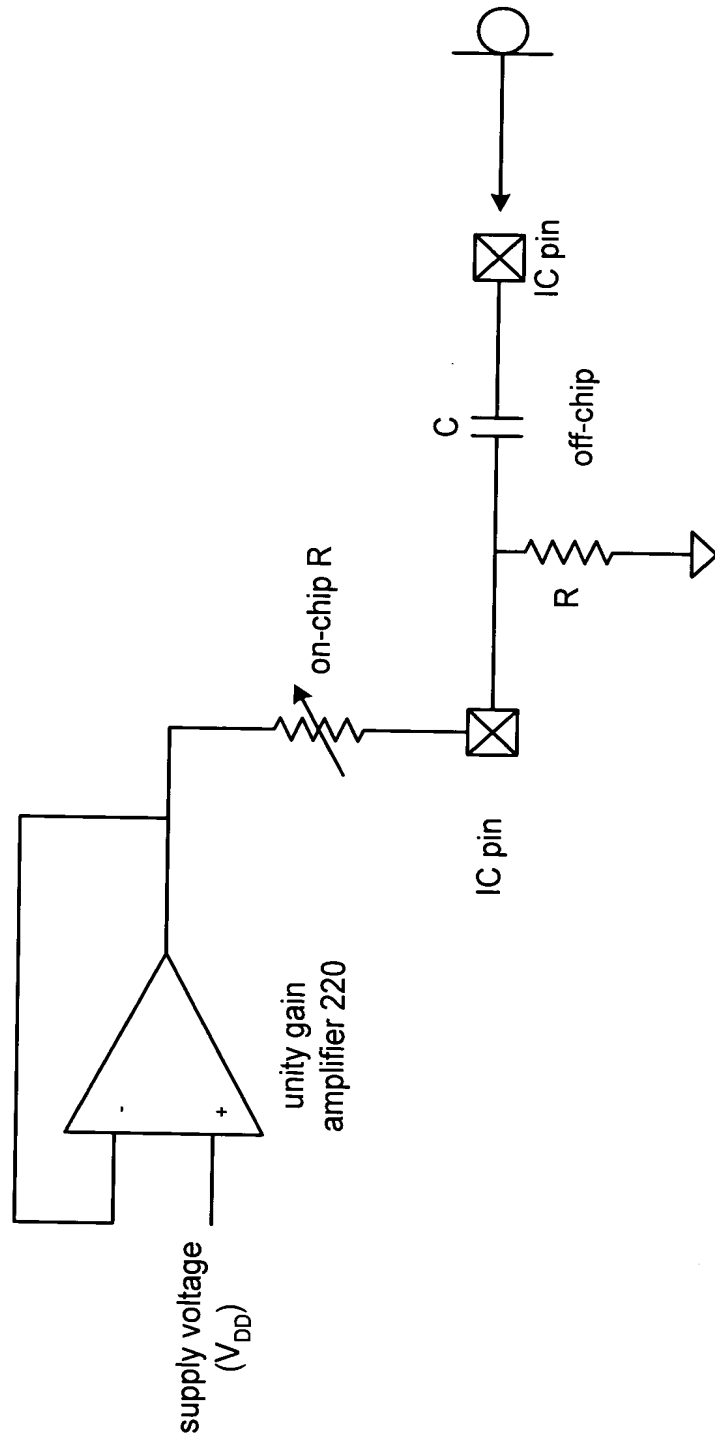


FIG. 12
microphone bias 96

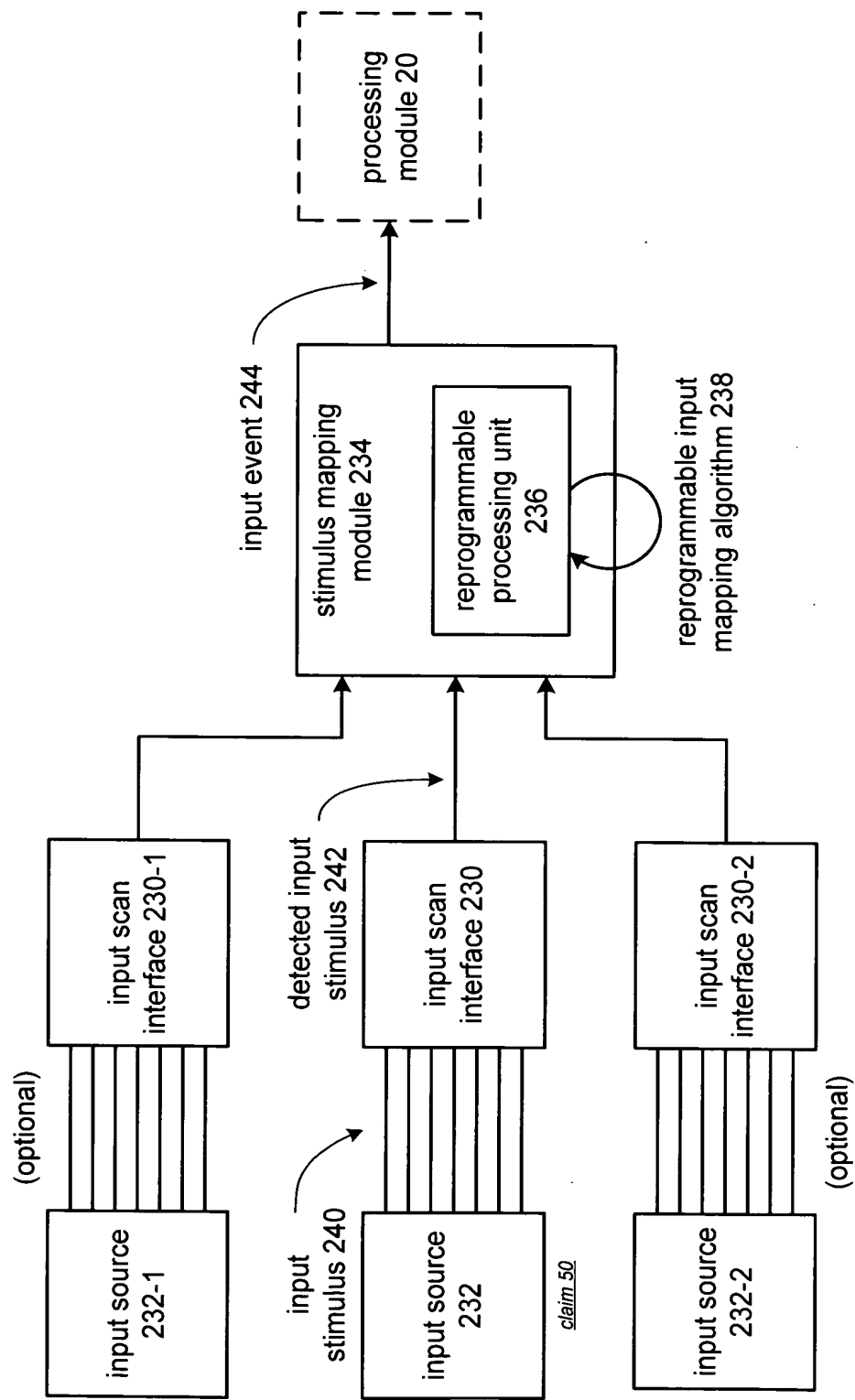


FIG. 13
input interface 90

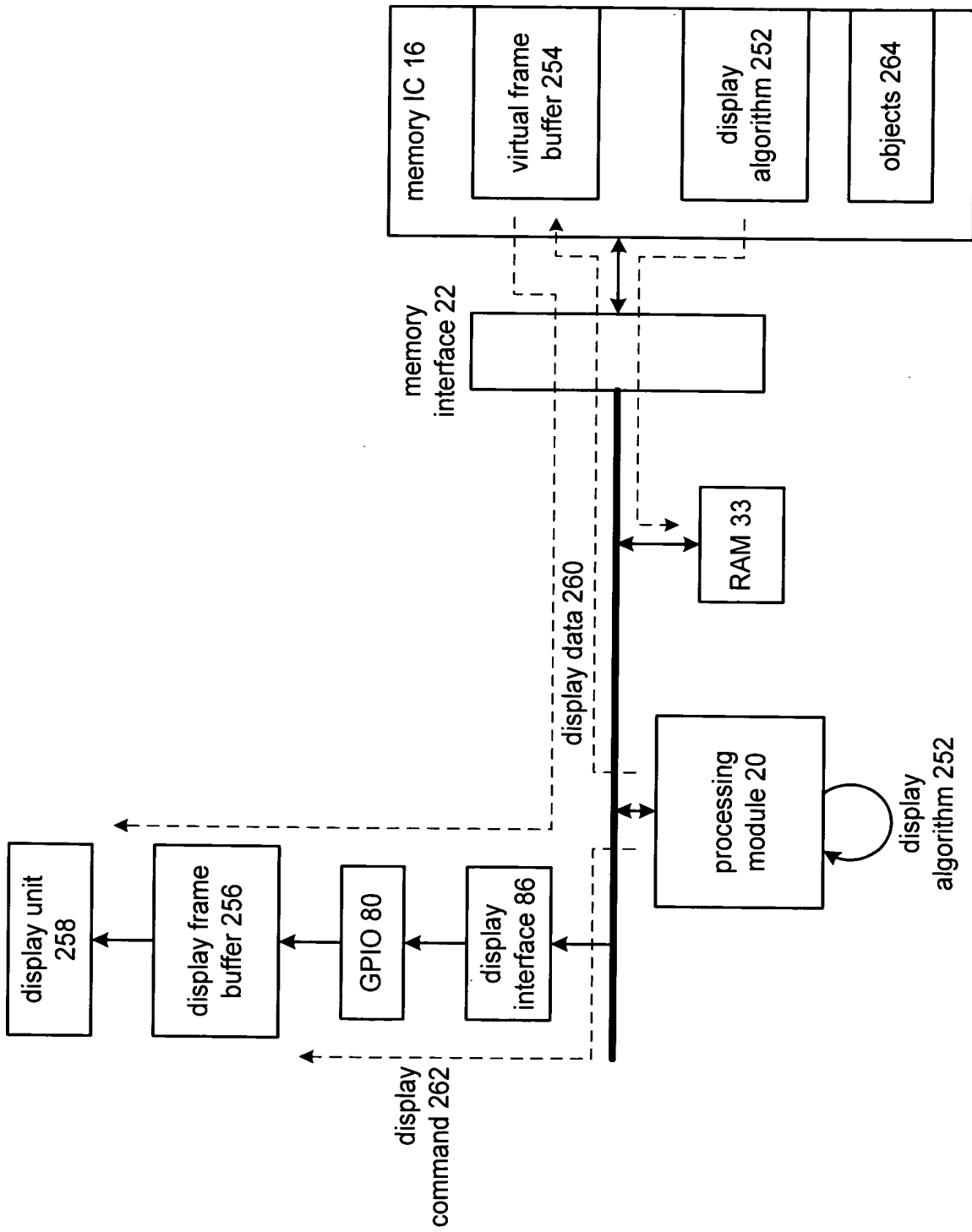


FIG. 14
display interface system 250

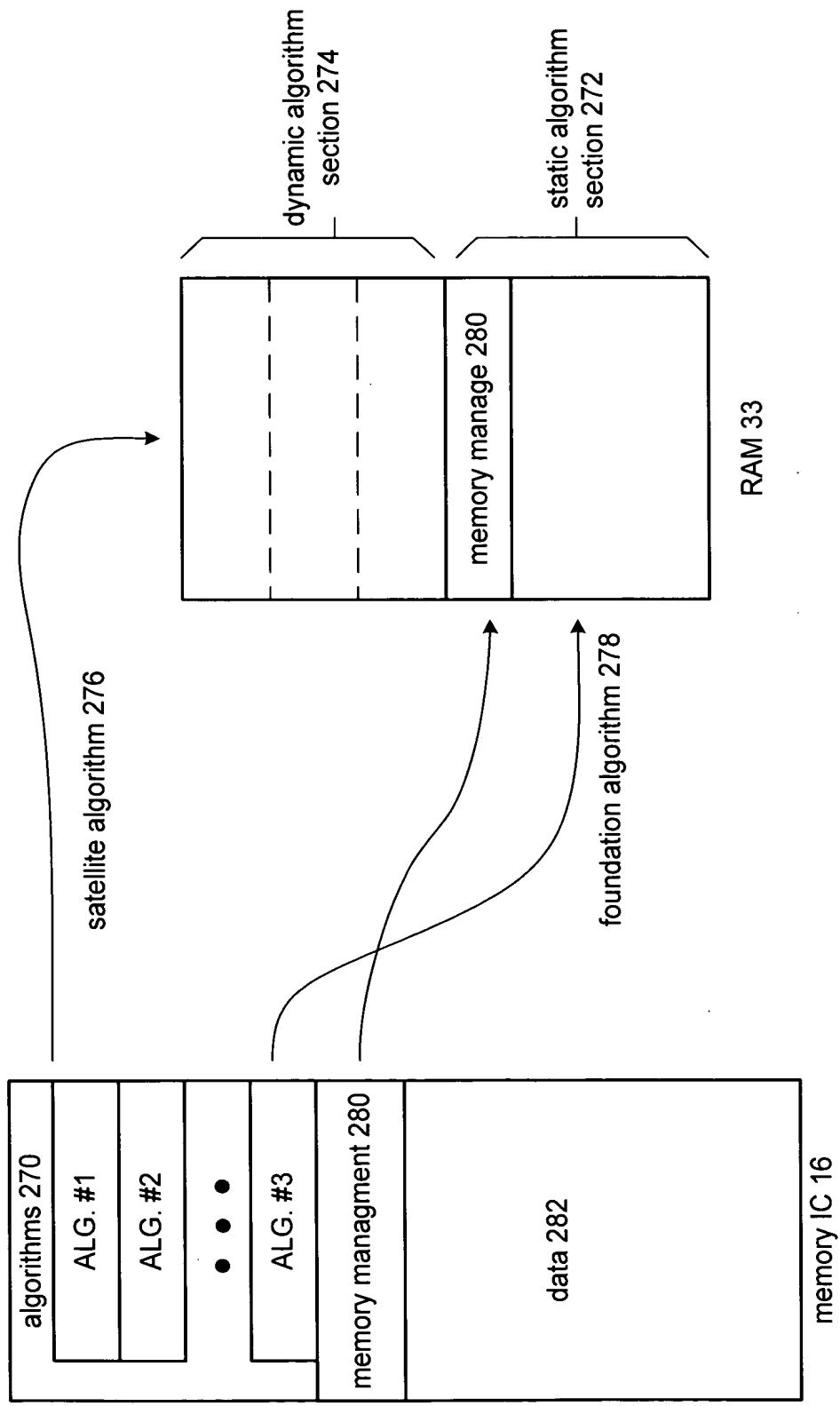


FIG. 15

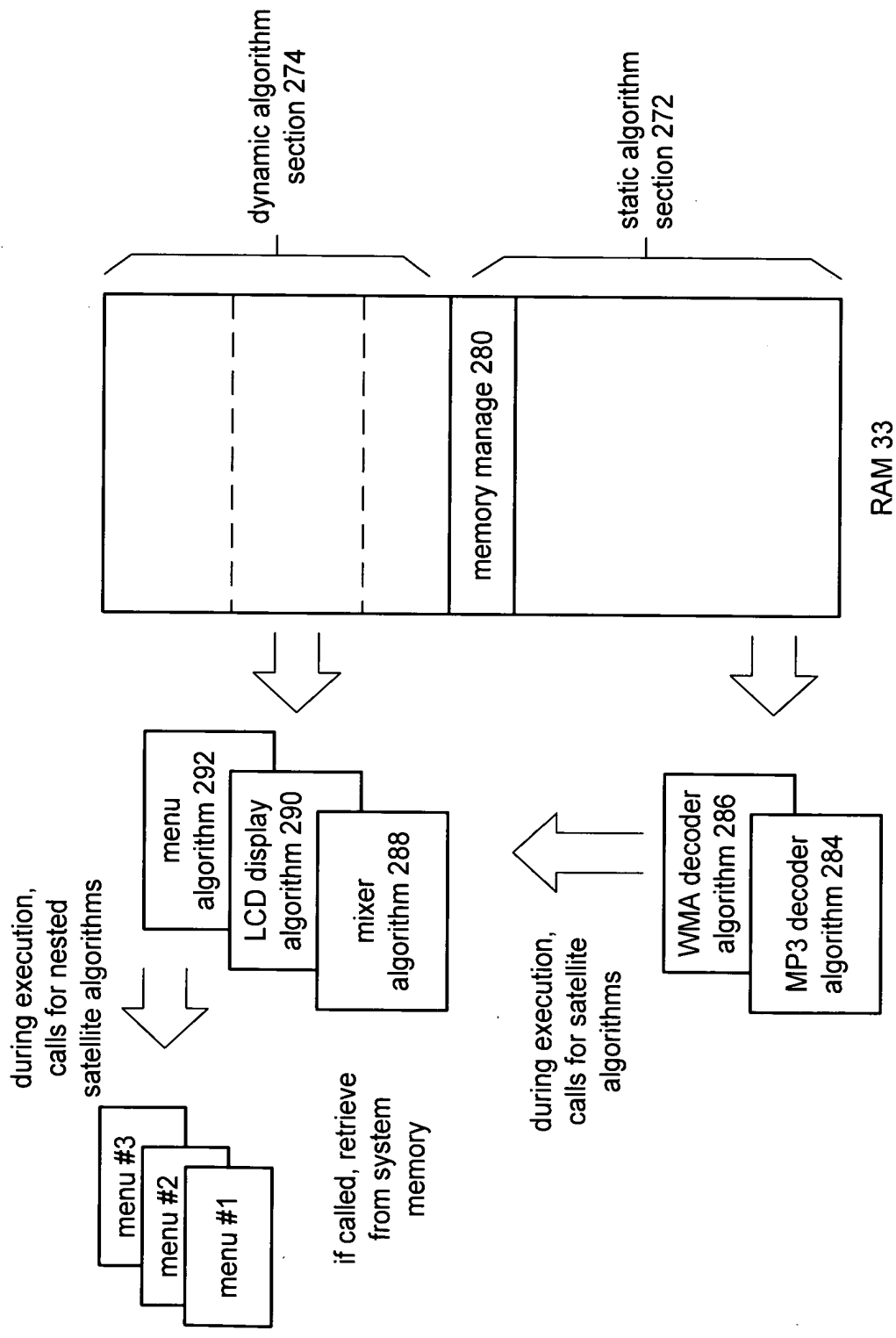


FIG. 16

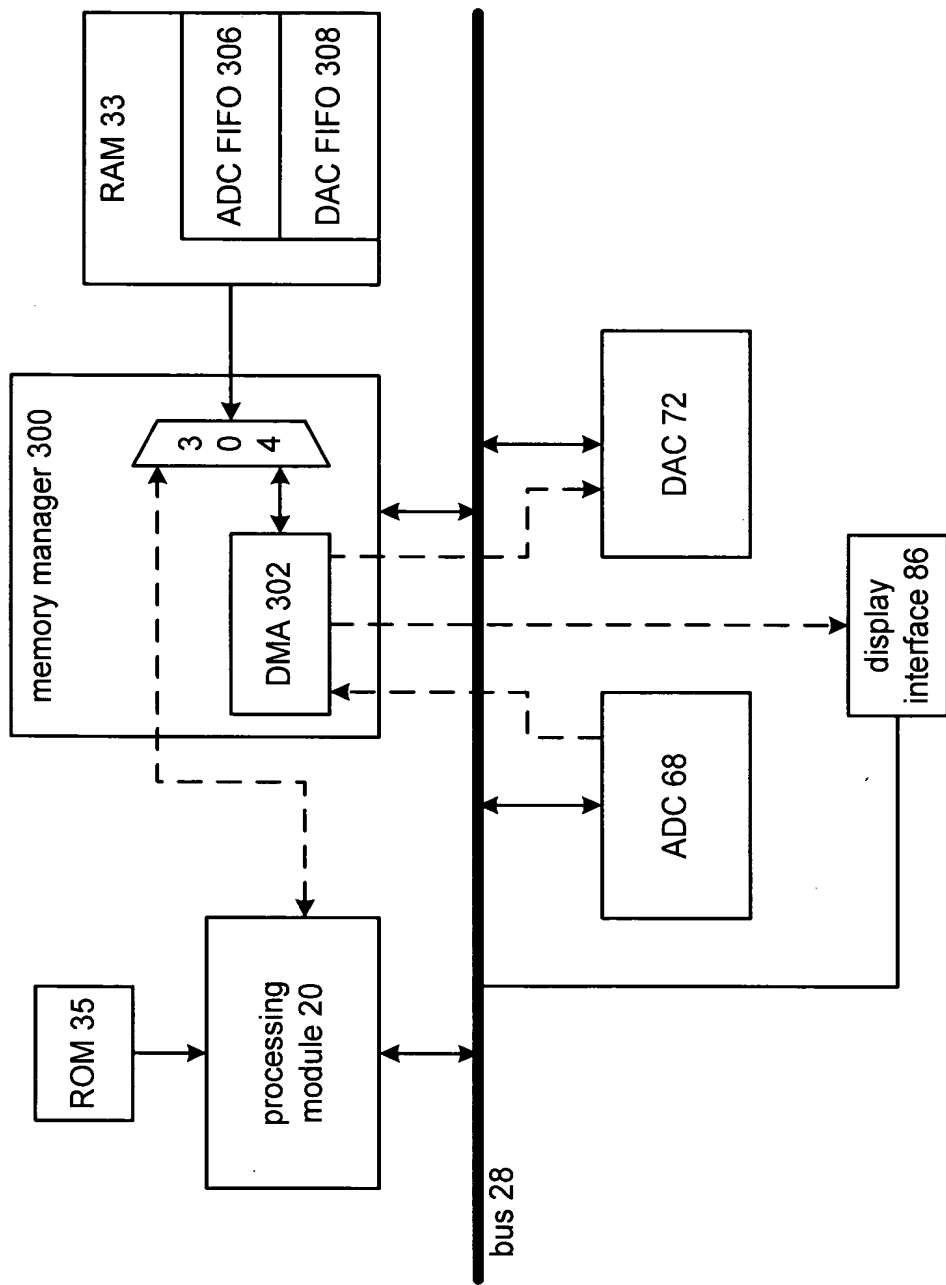
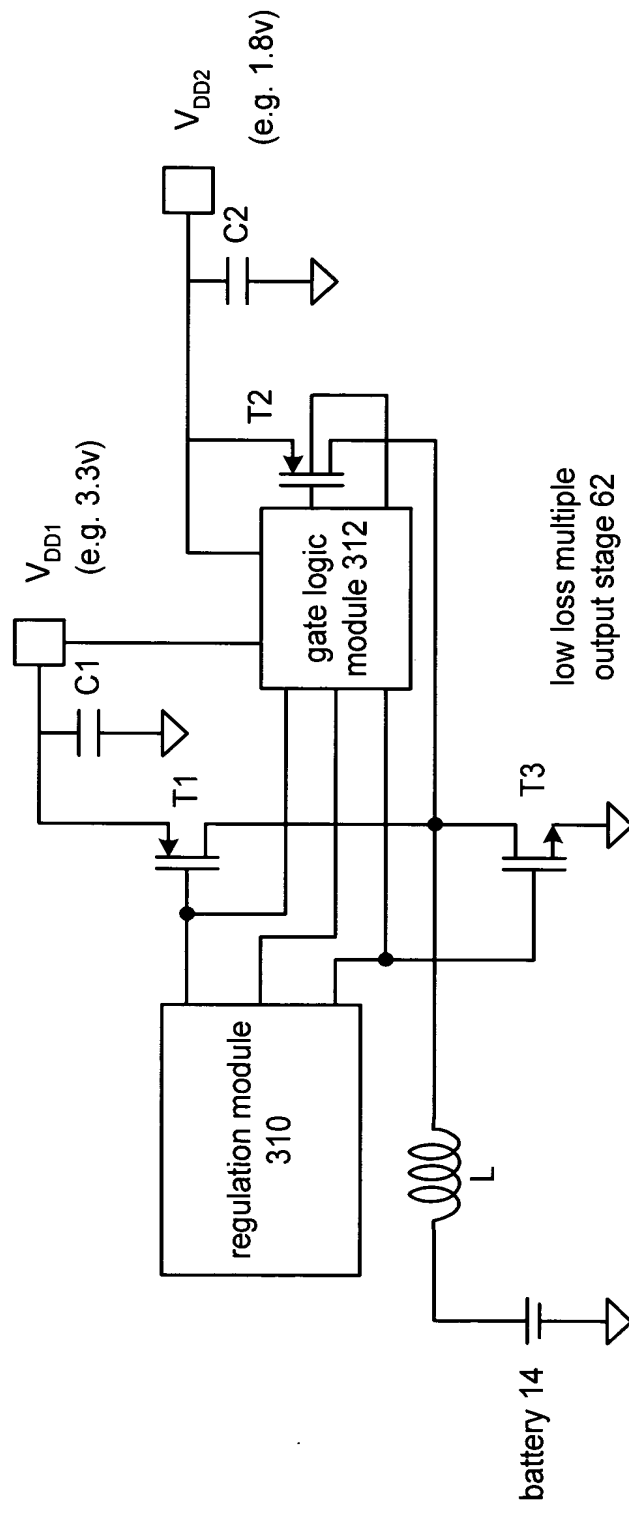


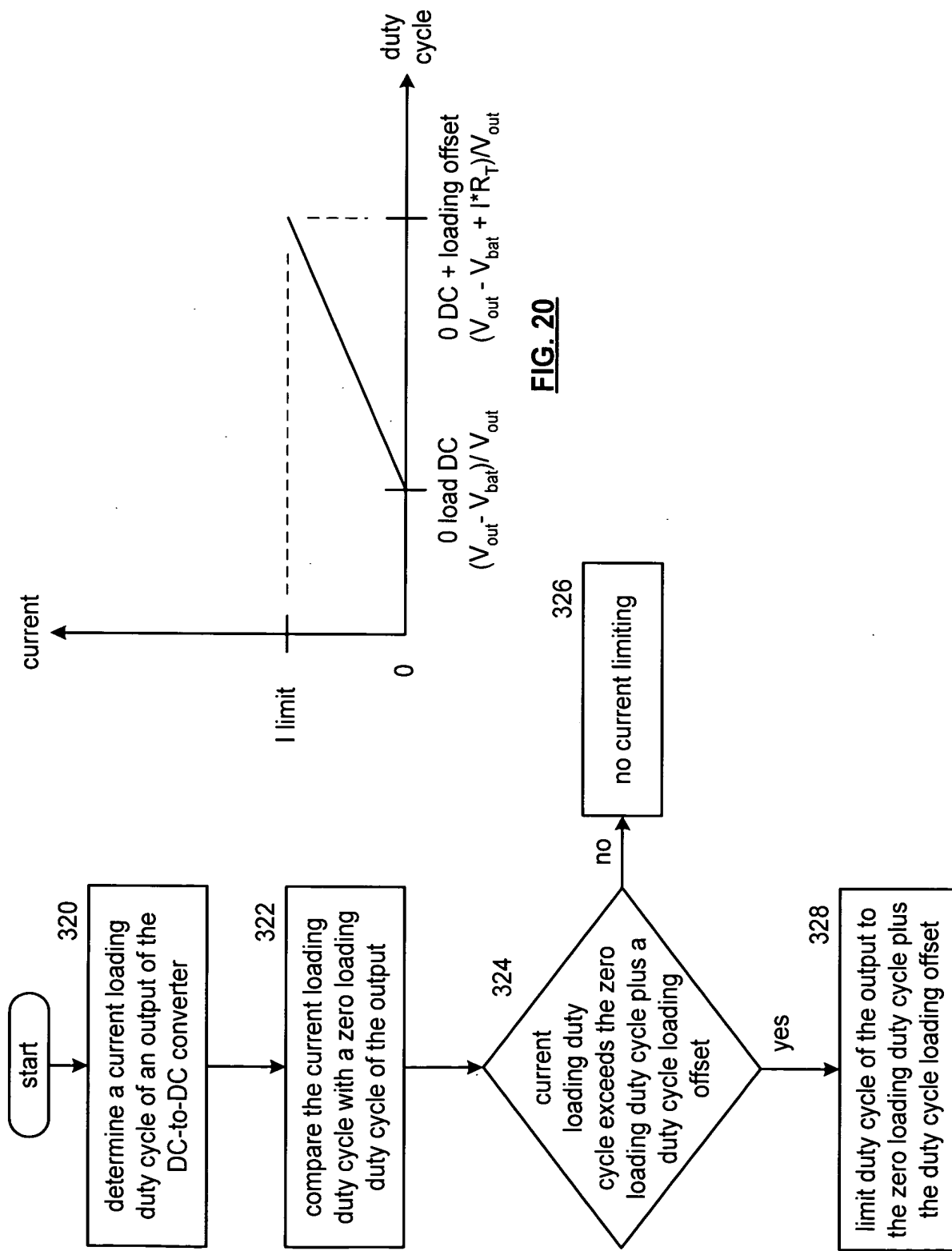
FIG. 17



gate logic module function

- if T1 is on, set gate and well voltage of T2 to V_{DD1} ;
- if T1 is off and T3 is on, set gate and well voltage of T2 to V_{DD2} ;
- if T1 is off and T2 is on, set gate and well voltage of T2 to 0v

FIG. 18
DC to DC converter 26



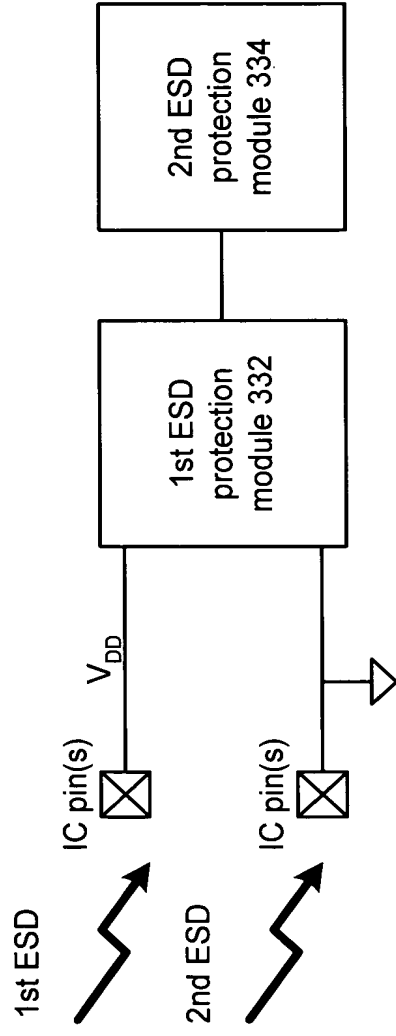


FIG. 21
ESD protection circuit 330

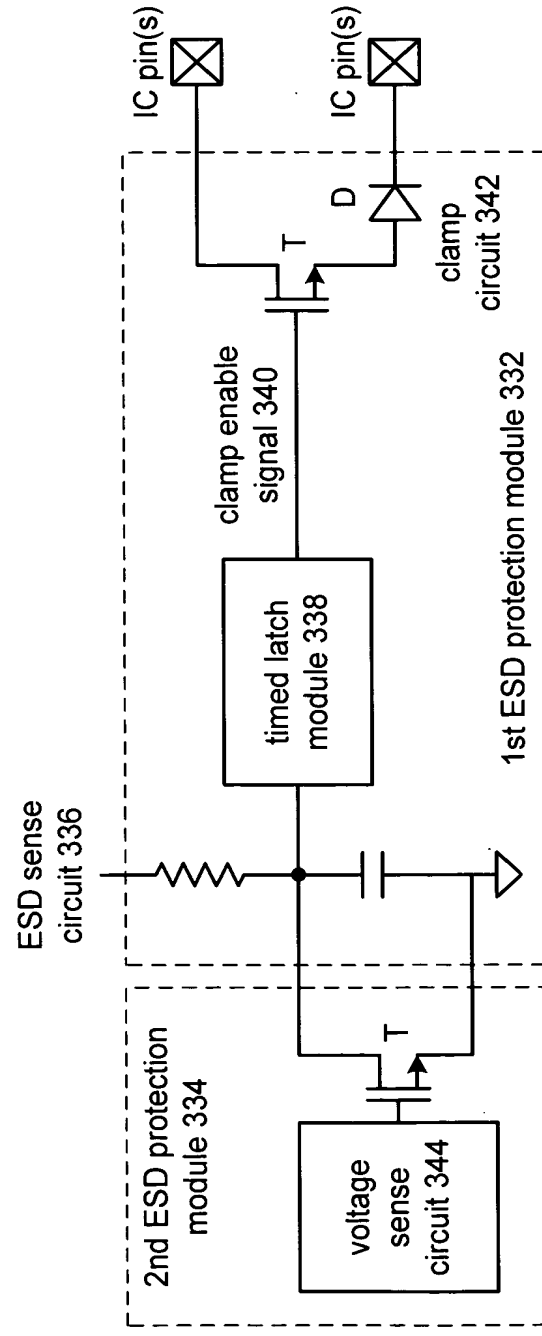
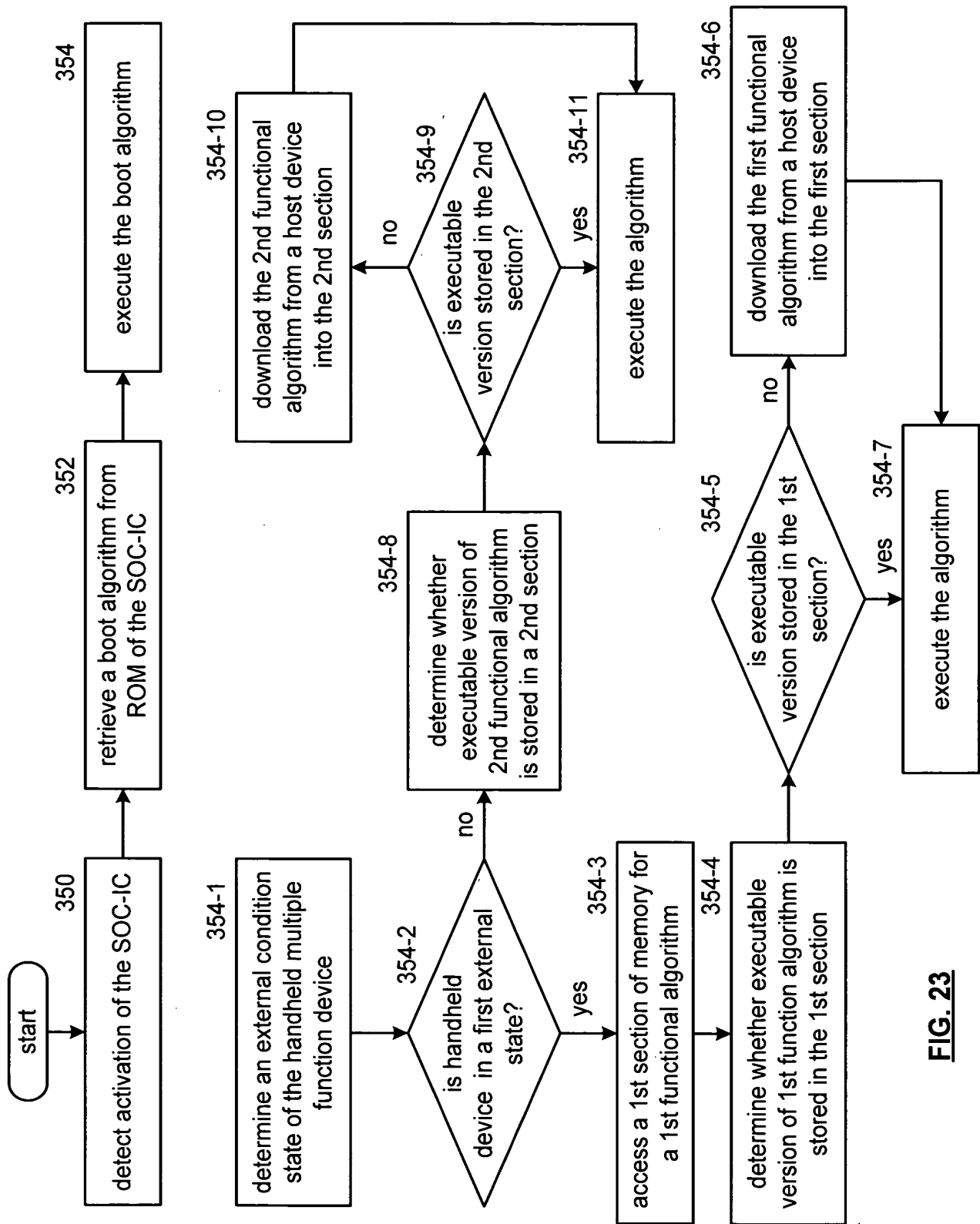


FIG. 22
ESD protection circuit 335



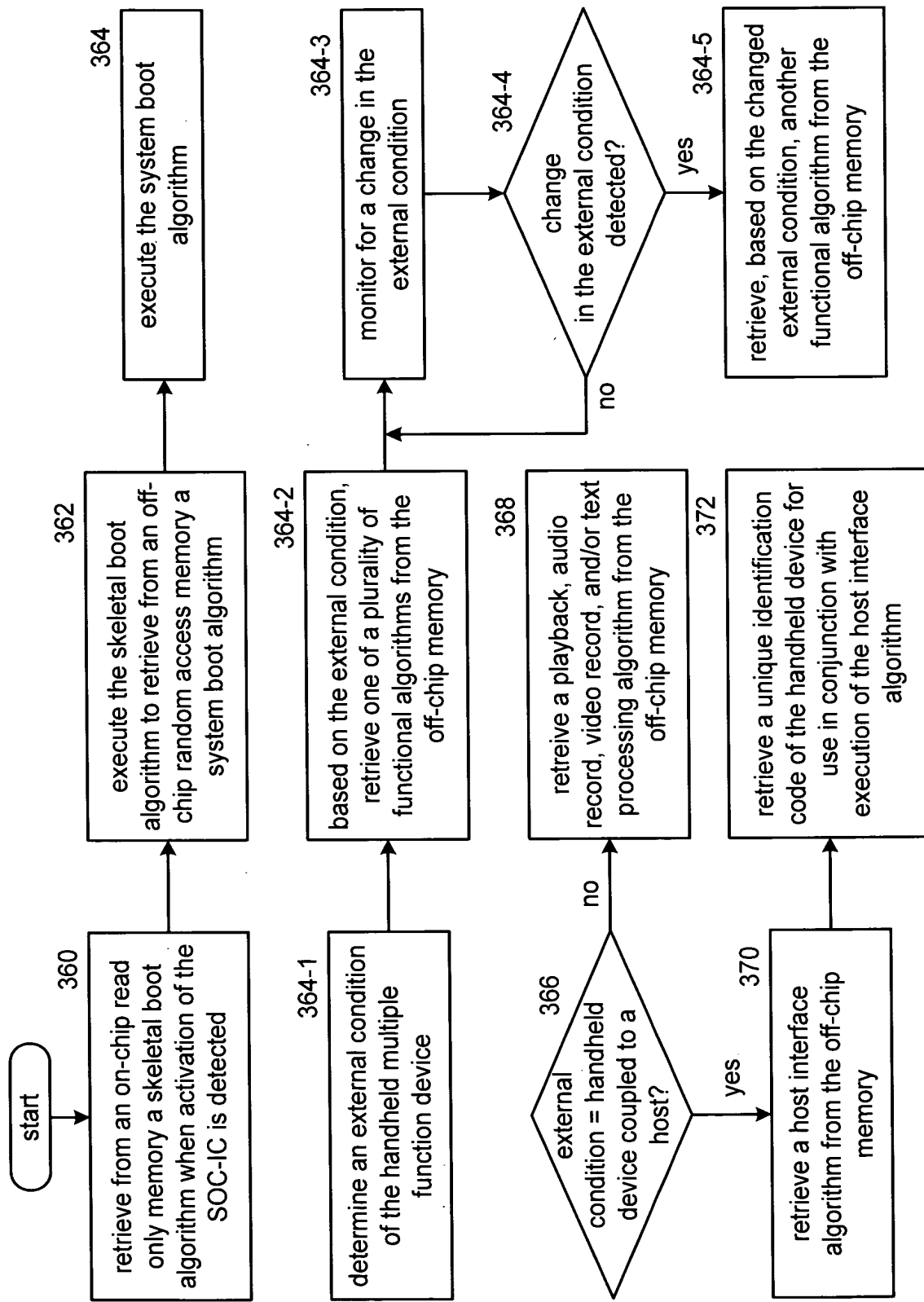
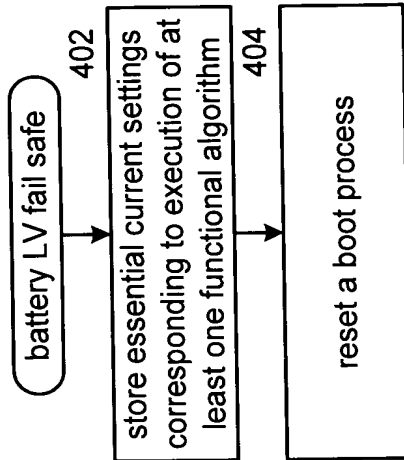
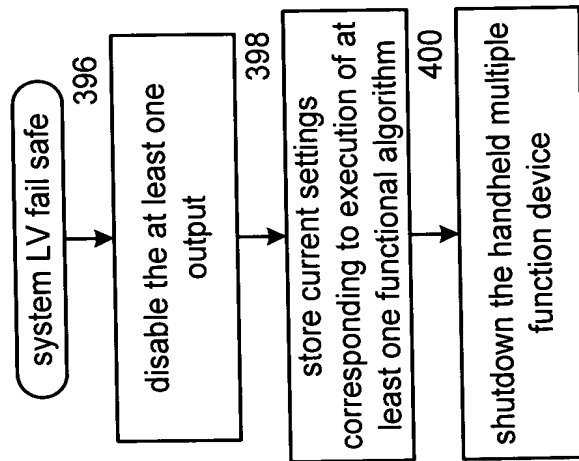
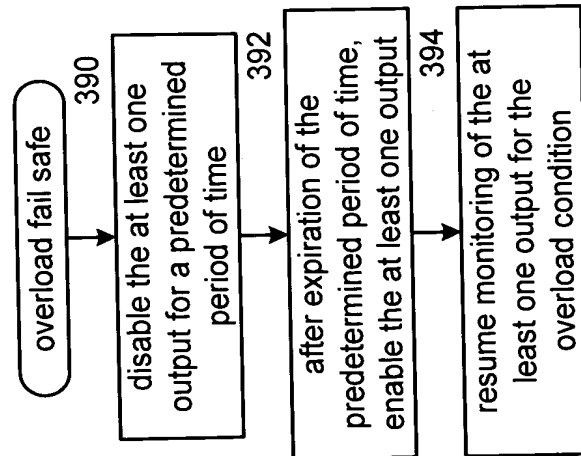
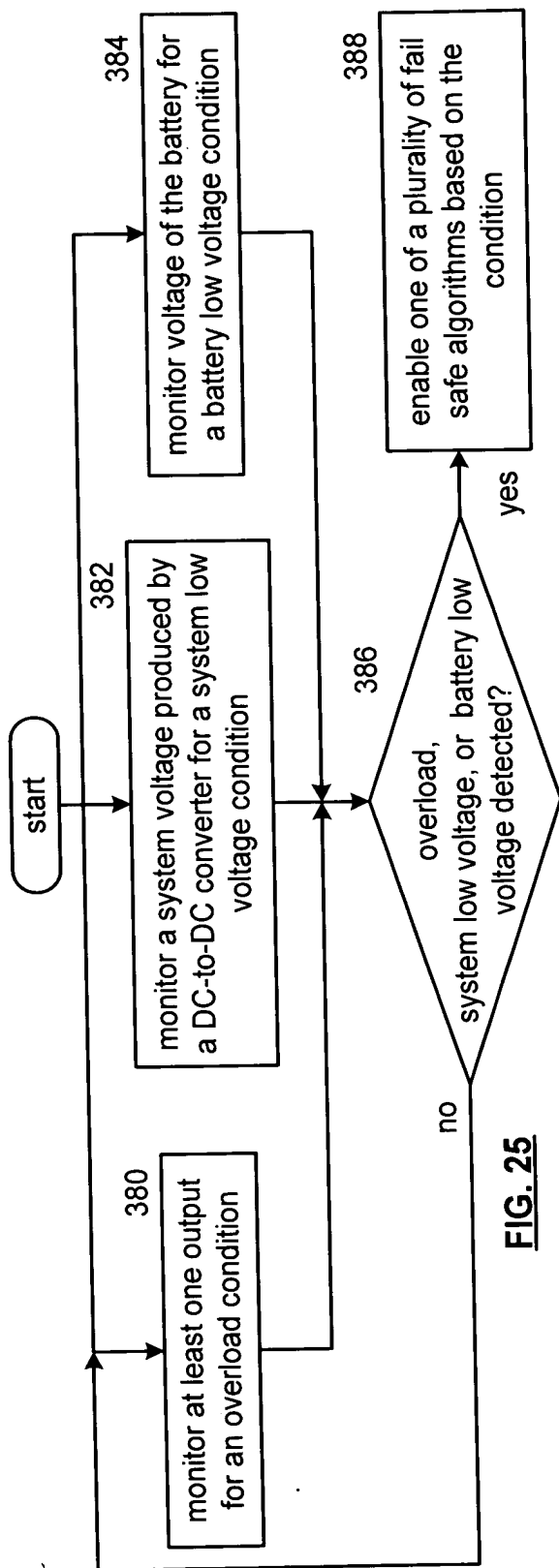


FIG. 24



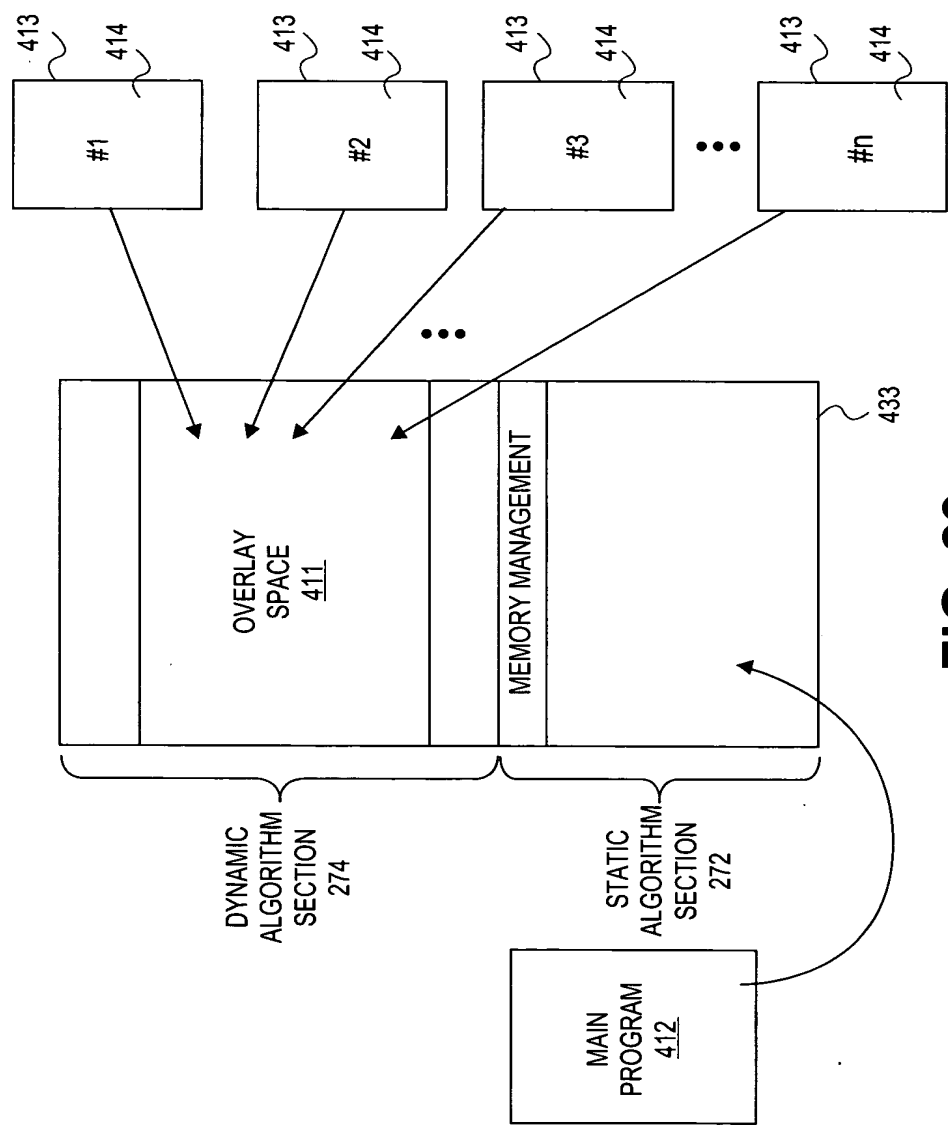


FIG. 29

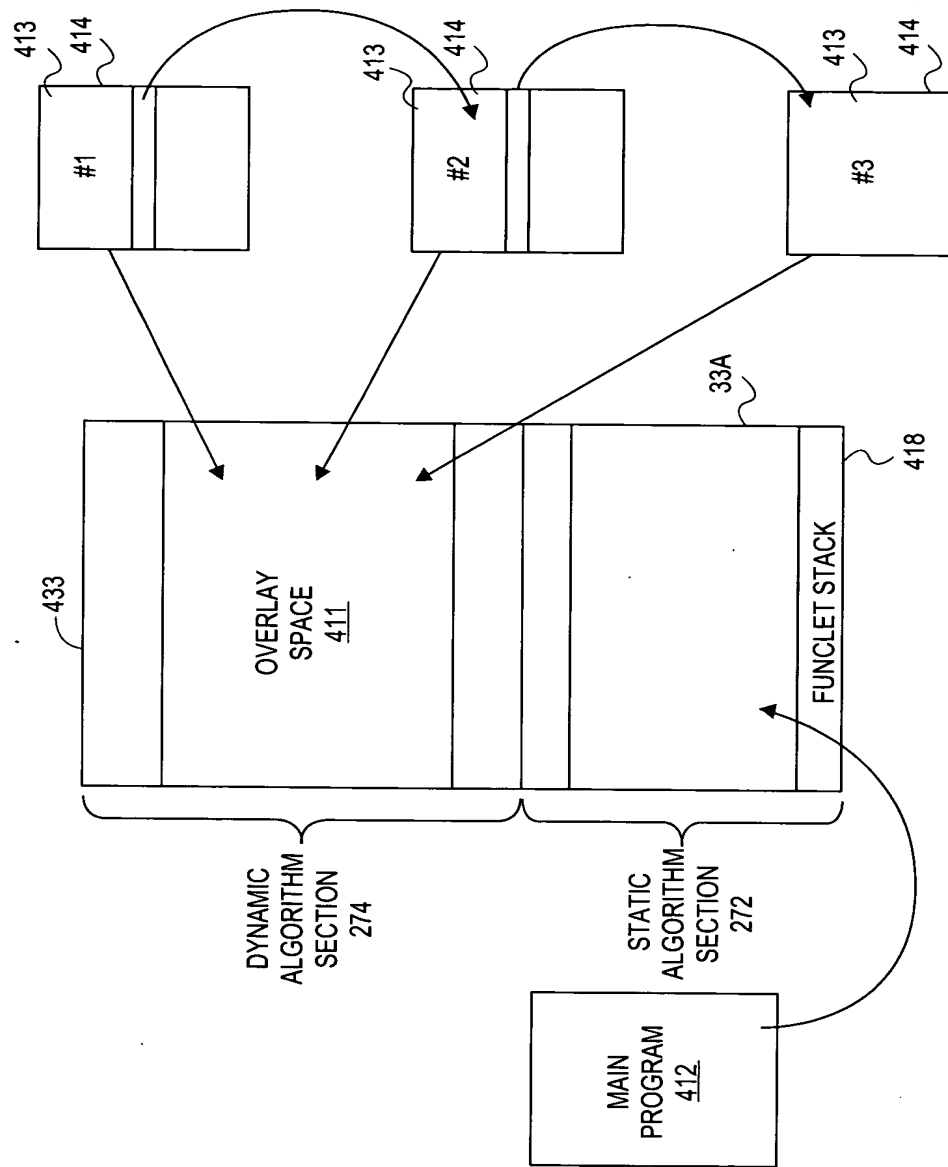


FIG. 30

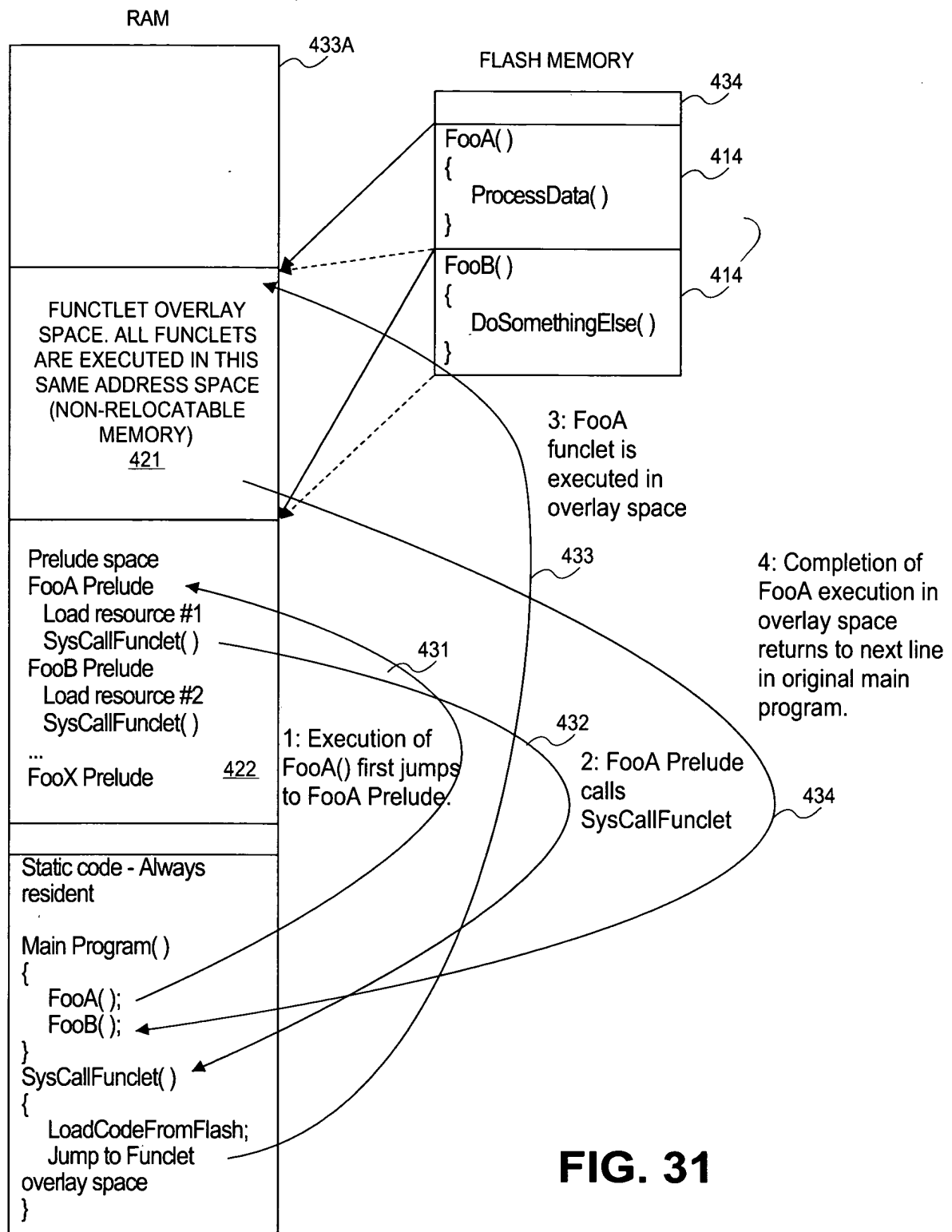


FIG. 31

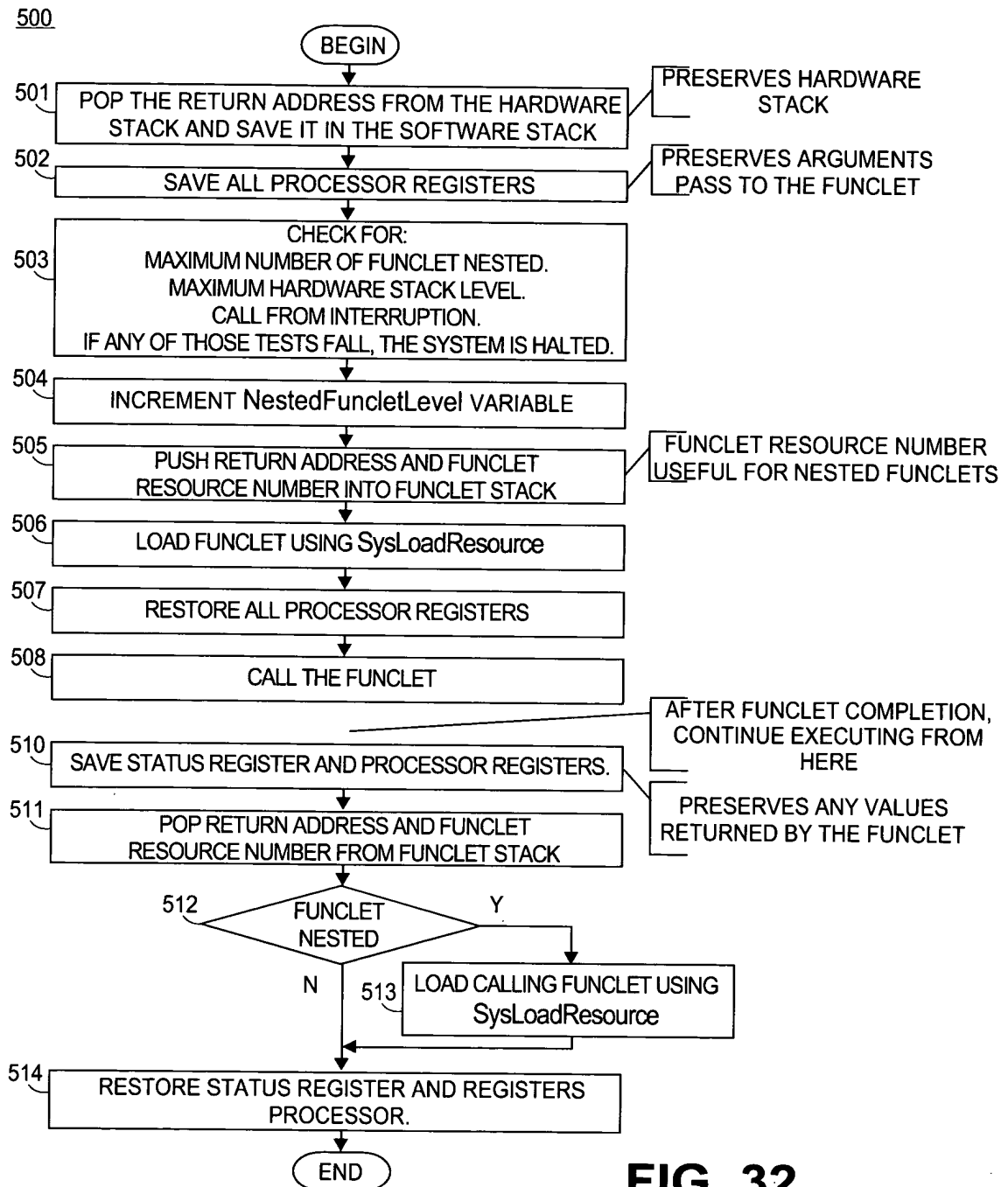


FIG. 32

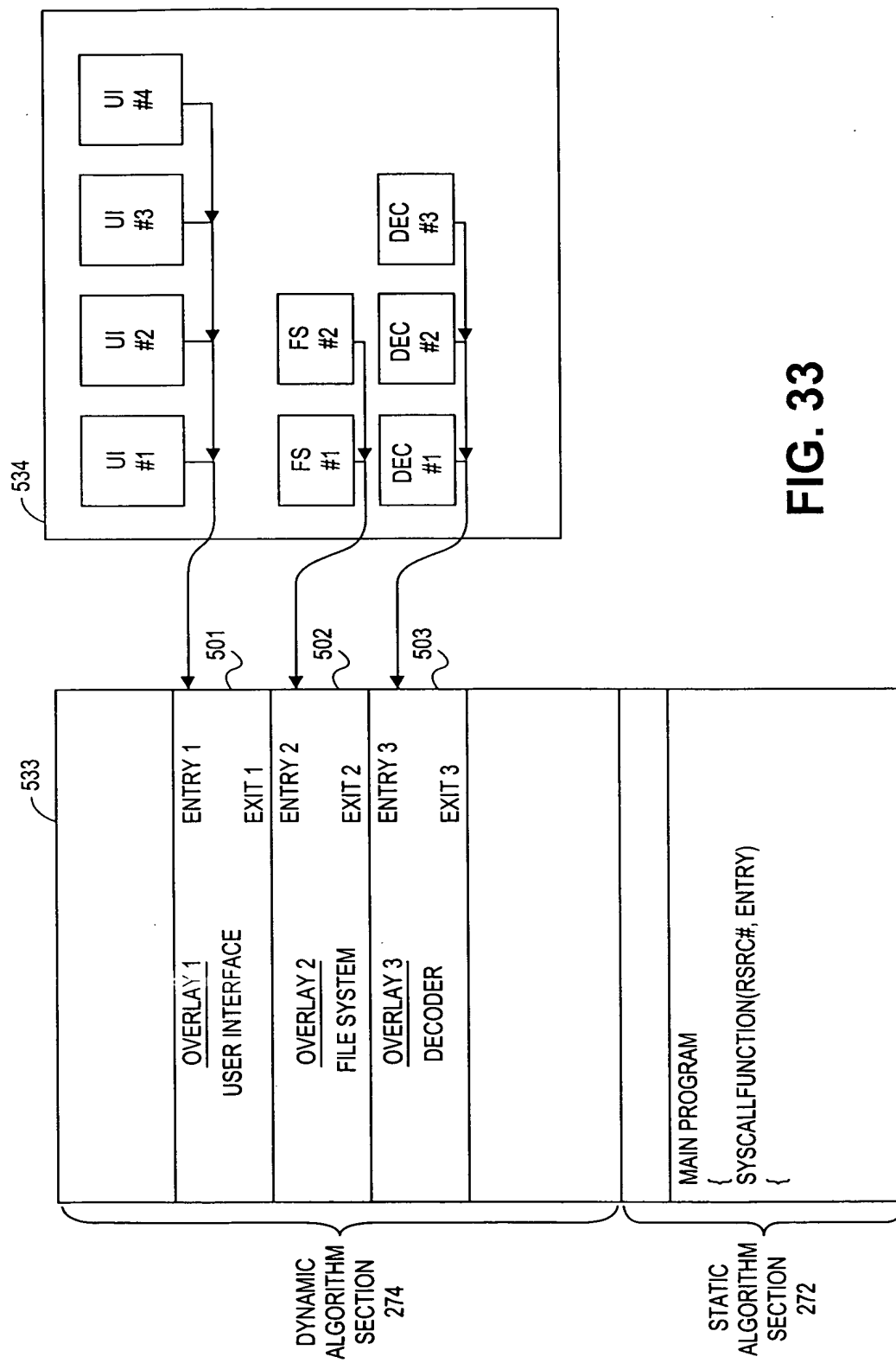


FIG. 33

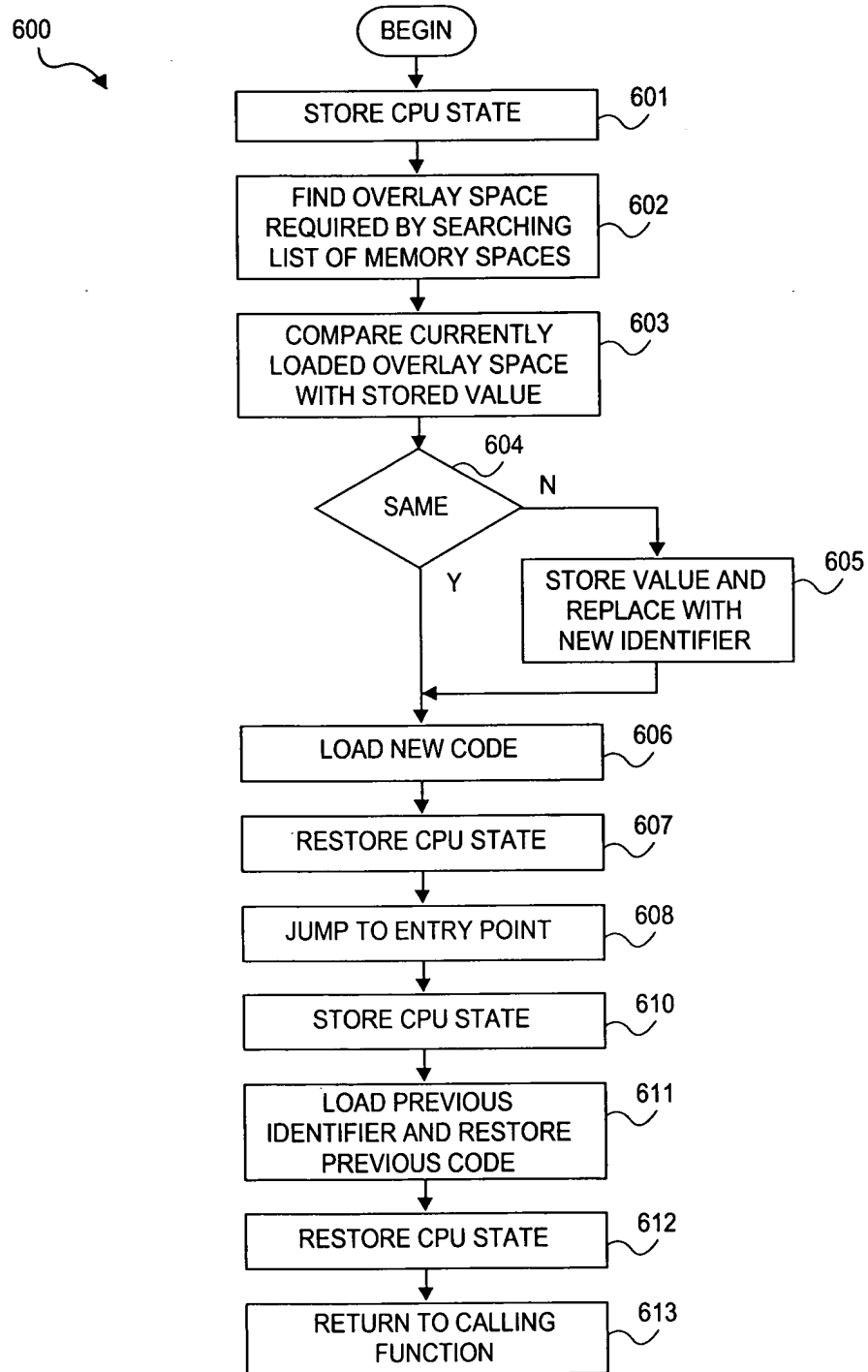


FIG. 34